## This Page Is Inserted by IFW Operations and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

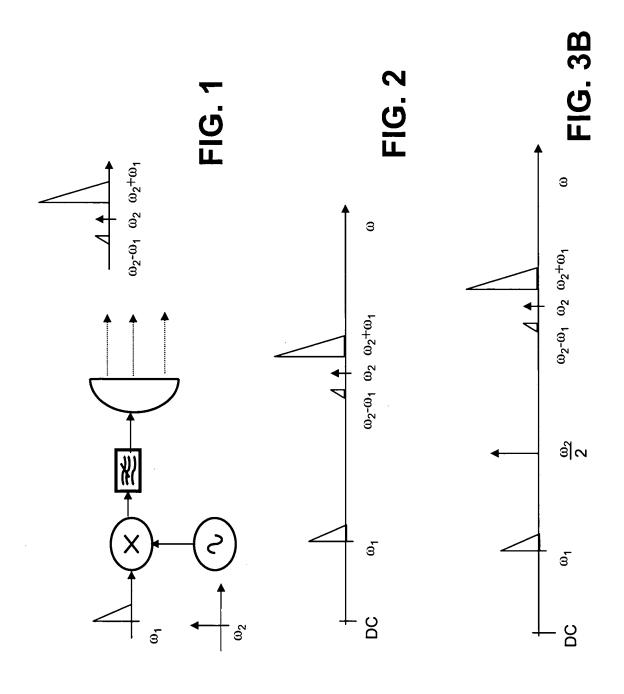
Defects in the images may include (but are not limited to):

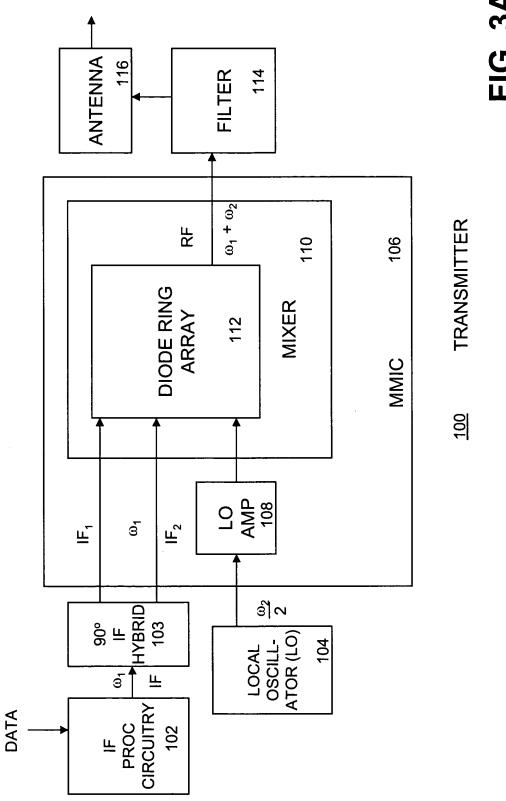
- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

## IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

Attorney: Jun-Young E. Jeon Docket No.: 51755/JEJ/F283 Inventor(s): Thomas A. Bos, et al. Title: DIODE RING CONFIGURATION FOR HARMONIC DIODE MIXERS Sheet 1 of 13





**FIG. 3A** 

Attorney: Juri-Young E. Jeon Docket No.: 51755/JEJ/F283 Inventor(s): Thomas A. Bos, et al. Title: DIODE RING CONFIGURATION FOR HARMONIC DIODE MIXERS Sheet 3 of 13

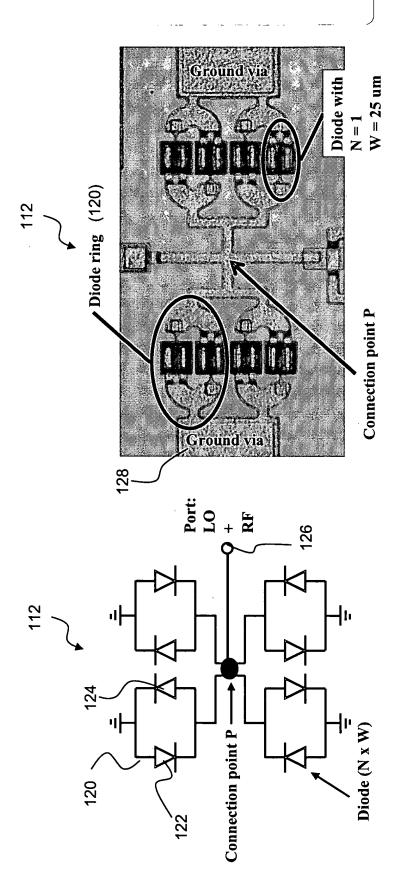
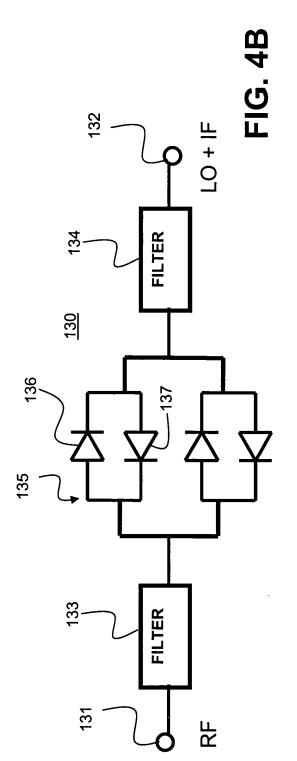


FIG. 5A

FIG. 4A

Attorney: Jun-Young E. Joon Docket No.: 51755/JEJ/F283 Inventor(s): Thomas A. Bos, et al. Title: DIODE RING CONFIGURATION FOR HARMONIC DIODE MIXERS Sheet 4 of 13



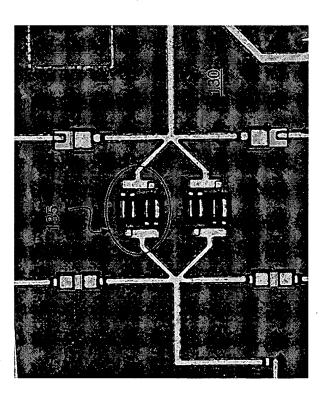
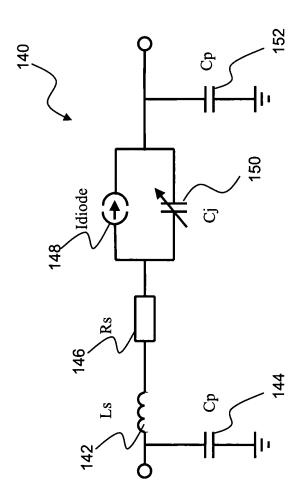
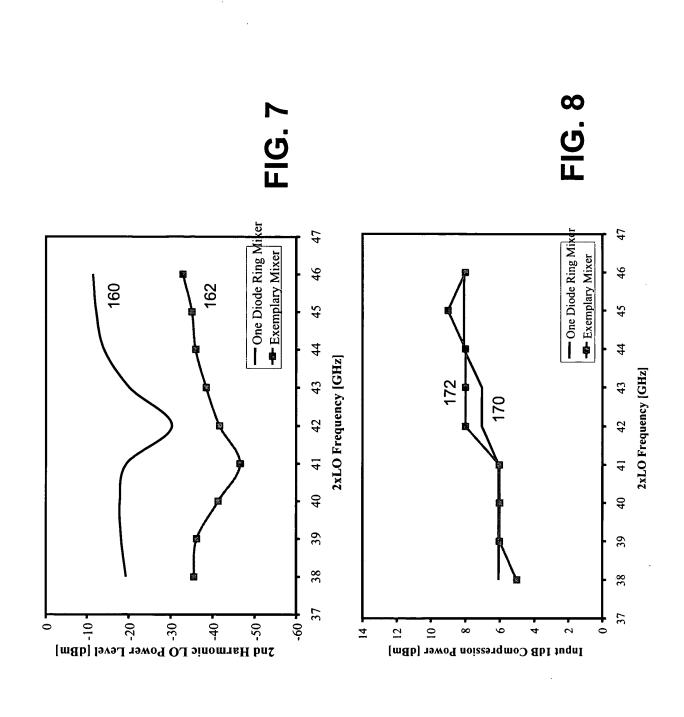


FIG. 5B



Attorney: Jun-Young E. Jeon Docket No.: 51755/JEJ/F283 Inventor(s): Thomas A. Bos, et al. Title: DIODE RING CONFIGURATION FOR HARMONIC DIODE MIXERS Sheet 5 of 13



Attorney. Jun-Young C. Jeon Docket No.: 51755/JEJ/F283 Inventor(s): Thomas A. Bos, et al. Title: DIODE RING CONFIGURATION FOR HARMONIC DIODE MIXERS Sheet 6 of 13 Attorney: Jun-Young E. Jeon Docket No.: 51755/JEJ/F283 Inventor(s): Thomas A. Bos, et al. Title: DIODE RING CONFIGURATION FOR HARMONIC DIODE MIXERS Sheet 7 of 13

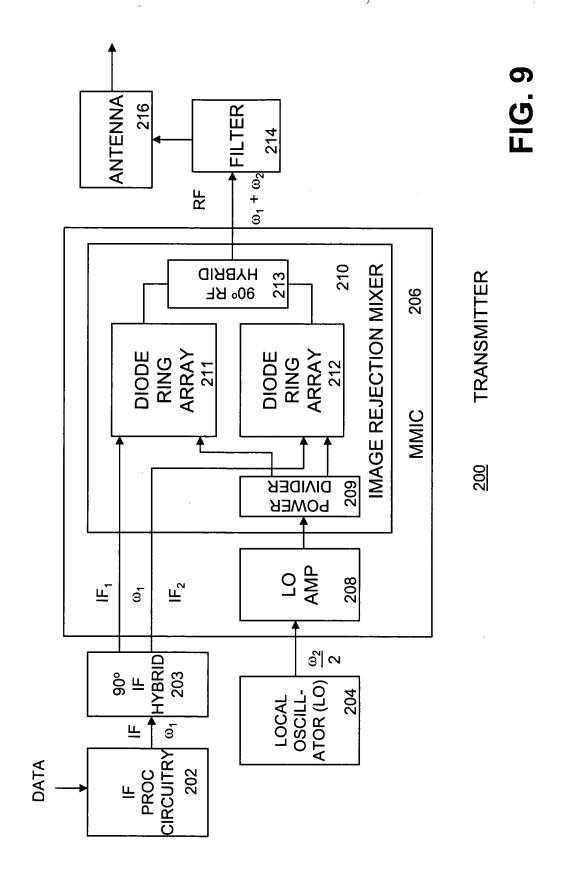
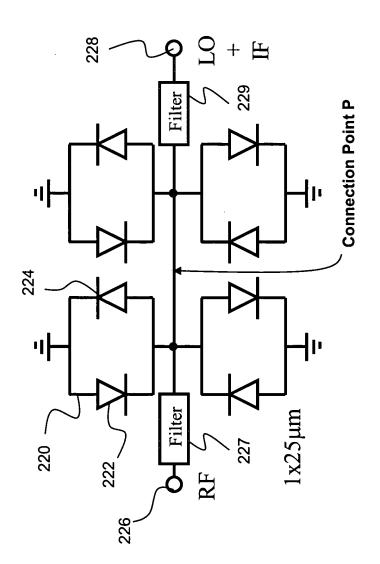
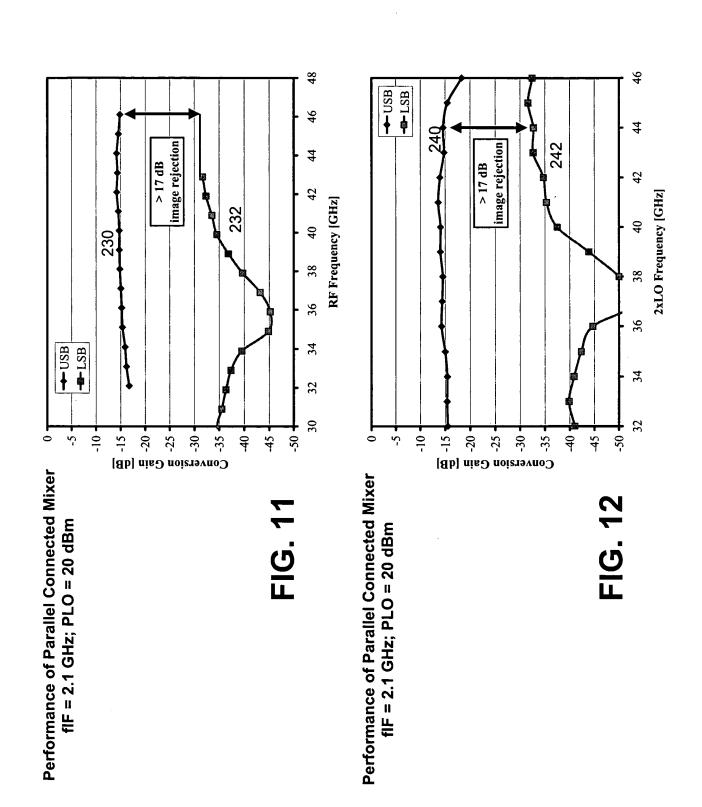


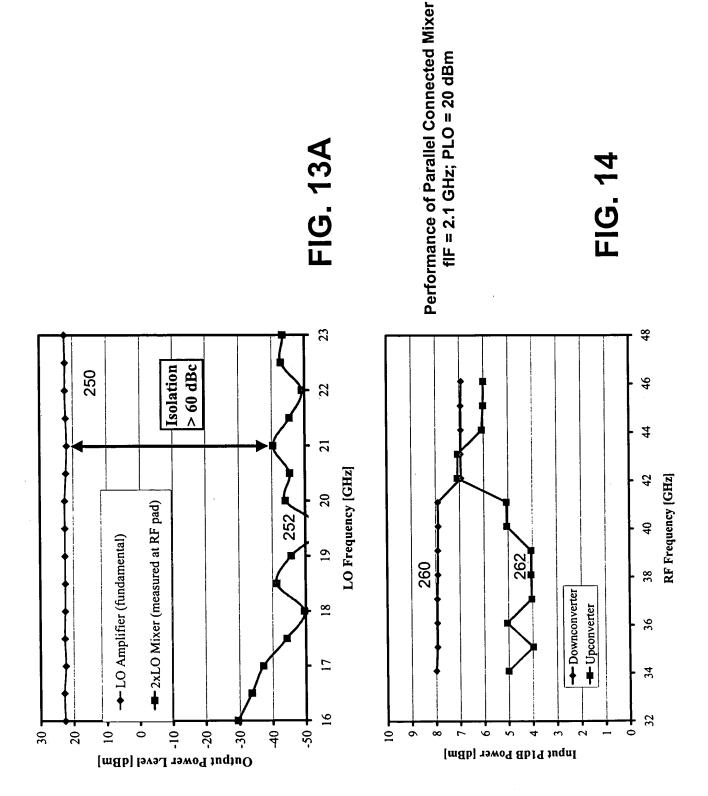
FIG. 10



Attorney: Jun-Young E. Jeon Docket No.: 51755/JEJ/F283 Inventor(s): Thomas A. Bos, et al. Title: DIODE RING CONFIGURATION FOR HARMONIC DIODE MIXERS Sheet 9 of 13

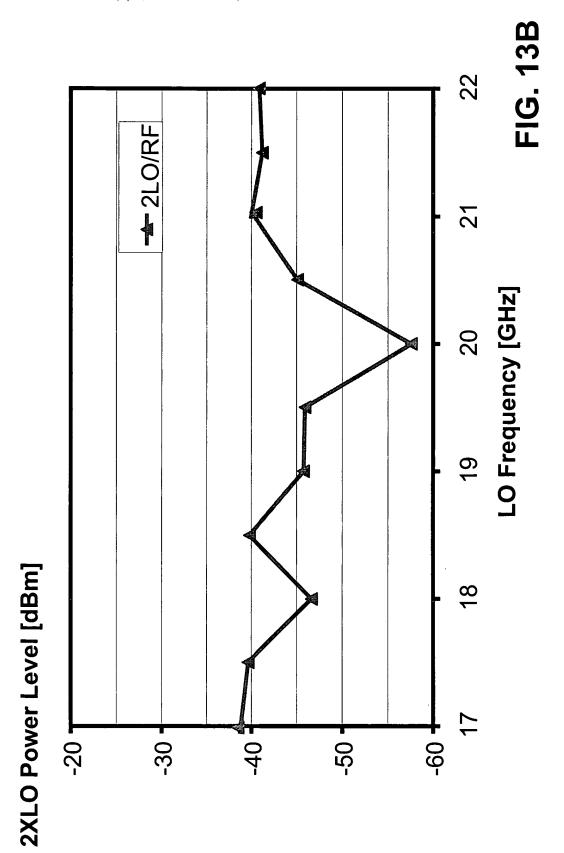


Attorney: Jun-Young E. Jeon Docket No.: 51755/JEJ/F283 Inventor(s): Thomas A. Bos, et al. Title: DIODE RING CONFIGURATION FOR HARMONIC DIODE MIXERS Sheet 10 of 13



Allomey, Jun-Young E. Jeon Docket No.: 51755/JEJ/F283 Inventor(s): Thomas A. Bos, et al. Title: DIODE RING CONFIGURATION FOR HARMONIC DIODE MIXERS Sheet 11 of 13

P1G40\_V5;  $f_{IF}$ =2.1GHz;  $P_{LO}$ = 20 dBm



Altorney: Juin-Young E. Jeen Docket No.: 51755/JEJ/F283 Inventor(s): Thomas A. Bos, et al. Title: DIODE RING CONFIGURATION FOR HARMONIC DIODE MIXERS Sheet 12 of 13

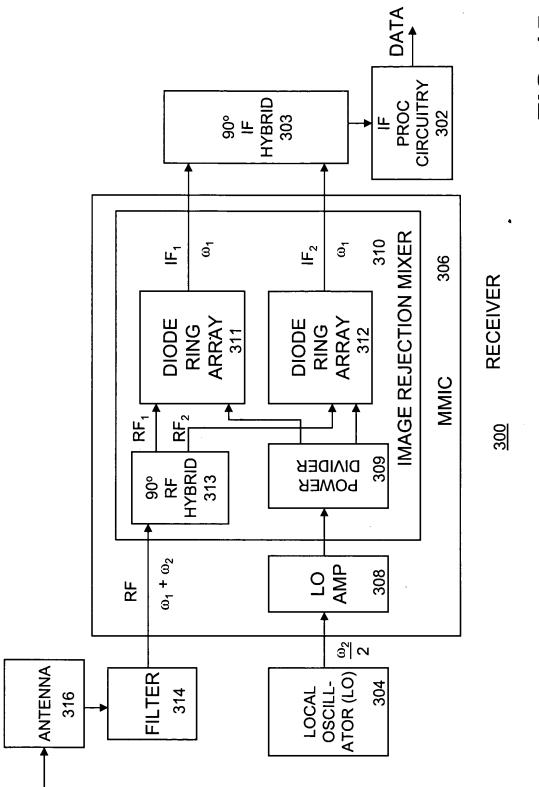


FIG. 15

Attorney: Jun-Young E. Jeon Docket No.: 51755/JEJ/F283 Inventor(s): Thomas A. Bos, et al. Title: DIODE RING CONFIGURATION FOR HARMONIC DIODE MIXERS Sheet 13 of 13

Performance of Series Connected Mixer fIF = 2.1 GHz; PLO = 20 dBm

